

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|                     |                                  |              |    |                        |               |
|---------------------|----------------------------------|--------------|----|------------------------|---------------|
| LM Start            | 0.00                             | Rating **    | A  | Issue No.              | 10            |
| LM End              | 0.00                             | Issue Type + | Ma | Location *             | N/A           |
| Category            | Earthen Levee                    |              |    | GPS Latitude/Longitude |               |
|                     |                                  |              |    | Start                  | End           |
| Item                | Operations & Maintenance Manuals |              |    | 39.194083 °            | 39.194083 °   |
|                     |                                  |              |    | -121.935512 °          | -121.935512 ° |
| DWR ID              | DWR_ST0003_01_f_2016_10          |              |    |                        |               |
| Comment Code        |                                  |              |    |                        |               |
|                     |                                  |              |    |                        |               |
| Inspector Comment   |                                  |              |    |                        |               |
| LMA has O+M manual. |                                  |              |    |                        |               |

No Photos

|                                  |                                |              |    |                        |               |
|----------------------------------|--------------------------------|--------------|----|------------------------|---------------|
| LM Start                         | 0.00                           | Rating **    | A  | Issue No.              | 15            |
| LM End                           | 0.00                           | Issue Type + | Ma | Location *             | N/A           |
| Category                         | Earthen Levee                  |              |    | GPS Latitude/Longitude |               |
|                                  |                                |              |    | Start                  | End           |
| Item                             | Emergency Supplies & Equipment |              |    | 39.194083 °            | 39.194083 °   |
|                                  |                                |              |    | -121.935512 °          | -121.935512 ° |
| DWR ID                           | DWR_ST0003_01_f_2016_15        |              |    |                        |               |
| Comment Code                     |                                |              |    |                        |               |
|                                  |                                |              |    |                        |               |
| Inspector Comment                |                                |              |    |                        |               |
| LMA has a stockpile of supplies. |                                |              |    |                        |               |

No Photos

|   |                               |              |    |                        |               |
|---|-------------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.00                          | Rating **    | A  | Issue No.              | 16            |
| LM End  | 0.00                          | Issue Type + | Ma | Location *             | N/A           |
| Category  | Earthen Levee                 |              |    | GPS Latitude/Longitude |               |
|   |                               |              |    | Start                  | End           |
| Item  | Flood Preparedness & Training |              |    | 39.194083 °            | 39.194083 °   |
|   |                               |              |    | -121.935512 °          | -121.935512 ° |
| DWR ID  | DWR_ST0003_01_f_2016_16       |              |    |                        |               |
| Comment Code  |                               |              |    |                        |               |
|   |                               |              |    |                        |               |
| Inspector Comment   |                               |              |    |                        |               |
| The LMA attends annual training and maintains emergency response plans. |                               |              |    |                        |               |

No Photos

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|

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|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                            |              |    |                        |               |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.00                       | Rating **    | M  | Issue No.              | 131           |
| LM End   | 15.06                      | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee              |              |    | GPS Latitude/Longitude |               |
|  |                            |              |    | Start                  | End           |
| Item   | Vegetation                 |              |    | 39.194125 °            | 39.329186 °   |
|  |                            |              |    | -121.935497 °          | -122.017246 ° |
| DWR ID   | DWR_ST0003_01_s _ 2017_131 |              |    |                        |               |
| Comment Code   |                            |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                            |              |    |                        |               |
| Inspector Comment  |                            |              |    |                        |               |
|  |                            |              |    |                        |               |

No Photos

|  |                            |              |    |                        |               |
|--|----------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.00                       | Rating **    | M  | Issue No.              | 132           |
| LM End   | 15.06                      | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee              |              |    | GPS Latitude/Longitude |               |
|  |                            |              |    | Start                  | End           |
| Item   | Vegetation                 |              |    | 39.194130 °            | 39.329208 °   |
|  |                            |              |    | -121.935563 °          | -122.017259 ° |
| DWR ID   | DWR_ST0003_01_s _ 2019_132 |              |    |                        |               |
| Comment Code   |                            |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                            |              |    |                        |               |
| Inspector Comment  |                            |              |    |                        |               |
|  |                            |              |    |                        |               |

No Photos

|   |                            |              |    |                        |               |
|---|----------------------------|--------------|----|------------------------|---------------|
| LM Start                                      | 0.11                       | Rating **    | M  | Issue No.              | 130           |
| LM End  | 0.14                       | Issue Type + | Ma | Location *             | WS            |
| Category                                      | Earthen Levee              |              |    | GPS Latitude/Longitude |               |
|   |                            |              |    | Start                  | End           |
| Item  | Slope Stability            |              |    | 39.195163 °            | 39.195038 °   |
|   |                            |              |    | -121.936815 °          | -121.937435 ° |
| DWR ID  | DWR_ST0003_01_s _ 2017_130 |              |    |                        |               |
| Comment Code                                  |                            |              |    |                        |               |
| S1 : Repair slope instability.                |                            |              |    |                        |               |
| Inspector Comment                             |                            |              |    |                        |               |
| Repair the erosion along the waterside slope. |                            |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_130\_20190327\_00032.jpg



View of the erosion along the waterside slope.

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

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**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.24                    | Rating **    | M  | Issue No.              | 82            |
| LM End  | 0.24                    | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 39.195234 °            | 39.195234 °   |
|   |                         |              |    | -121.939124 °          | -121.939124 ° |
| DWR ID  | DWR_ST0003_01_f_2016_82 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.42                    | Rating **    | M  | Issue No.              | 81            |
| LM End  | 0.42                    | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 39.196483 °            | 39.196483 °   |
|   |                         |              |    | -121.942228 °          | -121.942228 ° |
| DWR ID  | DWR_ST0003_01_f_2016_81 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_81\_20190327\_00018.jpg



View of the ruts along the waterside slope.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

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| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |            |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | <b>0.51</b>                 | Rating **    | A/W                    | Issue No.     | <b>137</b> |
| LM End   | <b>0.51</b>                 | Issue Type + | Ma                     | Location *    |            |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |            |
|          |                             |              | Start                  | End           |            |
| Item     | DWR UCIP LMA Responsibility |              | 39.197028 °            | 39.197028 °   |            |
|          |                             |              | -121.943597 °          | -121.943597 ° |            |
| DWR ID   | 17307                       |              |                        |               |            |

**Comment Code**

**Inspector Comment**

FS\_ID:51650  
DS\_ID:17307  
EP\_NO: 9534  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)  
4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- A Freitag) 11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 6/6/2016 Crossing appears to be in good condition. 4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opening has no trash rack, this may cause safety issue. 6/30/2014 Same as last inspection. 12/30/2013 Same as last inspection. 7/29/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta).  
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].  
FS Date: 4/26/2017 9:46:51 AM

|          |             |              |     |            |                   |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | <b>0.51</b> | Rating **    | A/W | Issue No.  | <b>137 (cont)</b> |
| LM End   | <b>0.51</b> | Issue Type + | Ma  | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51650\_46962.jpg



Waterside view: overview towards CMP sewer pipe

Photo 2 of 3 : UCIP\_SP\_2019\_51650\_46960.jpg



Waterside view: water flowing from CMP sewer pipe

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|   | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |

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|------------------------------|------|------------|--------------------------|-------------|
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|   |                             |              |     |                        |               |
|---|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start  | 0.51                        | Rating **    | A/W | Issue No.              | 137 (cont)    |
| LM End  | 0.51                        | Issue Type + | Ma  | Location *             |               |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |
|   |                             |              |     | Start                  | End           |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.197028 °            | 39.197028 °   |
|   |                             |              |     | -121.943597 °          | -121.943597 ° |
| DWR ID  | 17307                       |              |     |                        |               |
| Comment Code  |                             |              |     |                        |               |
|   |                             |              |     |                        |               |
| Inspector Comment   |                             |              |     |                        |               |
| FS_ID:51650<br>DS_ID:17307<br>EP_NO: 9534<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 10/27/2017 This structure is inspected annually under the Structure and Channel Summer Inspection (part of the Levee Inspection Program) conducted by the DWR Flood Project Integrity and Inspection Branch (FPIIB). (DWR UCIP - O. Magana)<br>4/24/2017 Both sides of crossing were underwater during site visit. Will need to revisit after water levels drop. (DWR Sutter Yard- A Freitag) 11/7/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag) 6/6/2016 Crossing appears to be in good condition. 4/6/2015 Good Condition. No issues. Semi circle CMP half riser in inlet structure on LS. Inlet opeing has no trash rack, this may cause safety issue. 6/30/2014 Same as last inspection. 12/30/2013 Same as last inspection. 7/29/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: [Butte Slough Drainage Structure] 78-inch drainage pipe of an unknown material through the levee, 3 feet below the crown. Flap gate on the waterside (WS). Corrugated metal pipe (CMP) half riser (in a semi-circle configuration) in the inlet structure on the landside (LS). (78-inch pipe [HLM 0.44] authorized under Automatic Board Order (ABO) issued as Permit No. 9534, 1974 - Caleta).<br>[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 0.44)].<br>FS Date: 4/26/2017 9:46:51 AM |                             |              |     |                        |               |

Photo 3 of 3 : UCIP\_SP\_2019\_51650\_46961.jpg



Landside view: overview

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start                                    | 0.54                   | Rating **    | M  | Issue No.              | 9             |
| LM End                                      | 0.68                   | Issue Type + | Ma | Location *             | WS            |
| Category                                    | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Encroachments          |              |    | 39.197267 °            | 39.198178 °   |
|   |                        |              |    | -121.944232 °          | -121.946412 ° |
| DWR ID                                      | DWR_ST0003_01_s_2017_9 |              |    |                        |               |
| Comment Code                                |                        |              |    |                        |               |
| DE : Debris                                 |                        |              |    |                        |               |
| Inspector Comment                           |                        |              |    |                        |               |
| Remove the debris from the waterside slope. |                        |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_9\_20190327\_00007.jpg



View of the debris along the waterside slope.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|



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|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.89                    | Rating **    | M  | Issue No.              | 85            |
| LM End   | 0.89                    | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.196864 °            | 39.196864 °   |
|  |                         |              |    | -121.949619 °          | -121.949619 ° |
| DWR ID   | DWR_ST0003_01_s_2019_85 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| DE : Debris  |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
| The debris and fallen trees along the waterside toe should be removed. |                         |              |    |                        |               |

No Photos

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | 1.17                    | Rating **    | M  | Issue No.              | 80            |
| LM End                         | 1.17                    | Issue Type + | Ma | Location *             | WS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Slope Stability         |              |    | 39.194126 °            | 39.194126 °   |
|                                |                         |              |    | -121.953345 °          | -121.953345 ° |
| DWR ID                         | DWR_ST0003_01_f_2016_80 |              |    |                        |               |
| Comment Code                   |                         |              |    |                        |               |
| S1 : Repair slope instability. |                         |              |    |                        |               |
| Inspector Comment              |                         |              |    |                        |               |
|                                |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_80\_20190327\_00017.jpg



View of the slope instability along the waterside slope.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

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|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |     |
|----------|-----------------------------|--------------|------------------------|---------------|-----|
| LM Start | 1.44                        | Rating **    | U                      | Issue No.     | 139 |
| LM End   | 1.44                        | Issue Type + | Ma                     | Location *    |     |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |     |
|          |                             |              | Start                  | End           |     |
| Item     | DWR UCIP LMA Responsibility |              | 39.192502 °            | 39.192502 °   |     |
|          |                             |              | -121.958062 °          | -121.958062 ° |     |
| DWR ID   | 17320                       |              |                        |               |     |

**Comment Code**

**Inspector Comment**

FS\_ID:53400  
DS\_ID:17320  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]  
FS Date: 8/30/2018 1:02:00 PM

Photo 1 of 3 : UCIP\_SP\_2019\_53400\_46992.jpg



Waterside view: overview of river bank

|  |  |   |
|--|--|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|

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| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44                        | Rating **    | U  | Issue No.              | 139 (cont)    |
| LM End   | 1.44                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.192502 °            | 39.192502 °   |
|          |                             |              |    | -121.958062 °          | -121.958062 ° |
| DWR ID   | 17320                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:53400  
DS\_ID:17320  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]  
FS Date: 8/30/2018 1:02:00 PM

Photo 2 of 3 : UCIP\_SP\_2019\_53400\_46991.jpg



Waterside view: water flowing from outlet pipe (pipe fully submerged)

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|   | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 1.44                        | Rating **    | U  | Issue No.              | 139 (cont)    |
| LM End   | 1.44                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.192502 °            | 39.192502 °   |
|          |                             |              |    | -121.958062 °          | -121.958062 ° |
| DWR ID   | 17320                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:53400  
DS\_ID:17320  
EP\_NO: 9543  
Repair Type: Urgent  
Crossing Status: Found  
UCIP Comments: 8/30/2018 WS vegetation too thick to clearly inspect WS pipe so assume same condition as last inspections so crossing remains Urgent due to pipe integrity. WS levee slope looks good. No signs of levee threat to the road crown. LS headwall looks in good condition (D. Sanoski - DWR UCIP).4/24/2017 WS was underwater during the site visit but I do not believe that any repairs have been made to this crossing yet. (DWR Sutter Yard- AFreitag)11/7/2016 No repairs have been made here yet. (DWR Sutter Yard- AFreitag)6/17/2016 River levels were down and the WS pipe end was exposed. WS end is completely rotten and damaged and flap gate has fallen off the end of the pipe (see pics). Pipe needs to be replaced or repaired. (DWR Sutter Yard - afreitag)4/5/2016 Erosion on WS slope still present. Pipe still fully submerged on WS and discharging into river during site visit. (DWR UCIP - kfazel)4/6/2015 Pipe leaks during high water. DWR employee said he suspects that the flap gate has rotted and fallen off WS end of pipe. Could not locate WS end of pipe to confirm. Water was flowing through this drain during field survey. (DWR Sutter Yard - afreitag)6/30/2014 Same as last inspection. (DWR Sutter Yard - afreitag)12/30/2013 Same as last inspection. (DWR Sutter Yard - afreitag)7/29/2013 Same as last inspection. (DWR Sutter Yard - afreitag) 12/13/2012 Water was flowing through this drain during field survey. (DWR UCIP - pamatya)  
FIELD\_STRUCT\_DESC: 30-inch corrugated metal drainage pipe (at 45 degrees) through the levee, 25.2 feet below the crown. Flap gate on the waterside (WS), not found in 2016. (30-inch pipe [HLM 1.38] authorized under Automatic Board Order (ABO) issued as Permit No. 9543, 1974 - Harada). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, revision March 1960 (HLM 1.38)]  
FS Date: 8/30/2018 1:02:00 PM

Photo 3 of 3 : UCIP\_SP\_2019\_53400\_46990.jpg



Landside view: overview of levee slope

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|   | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.93                    | Rating **    | M  | Issue No.              | 88            |
| LM End  | 1.93                    | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Encroachments           |              |    | 39.188102 °            | 39.188102 °   |
|   |                         |              |    | -121.964988 °          | -121.964988 ° |
| DWR ID  | DWR_ST0003_01_s_2019_88 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| AV : Abandoned vehicles   |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
| The abandoned vehicle should be removed from the waterside slope. |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_88\_20190418\_00187.jpg



View of the abandoned vehicle on the waterside slope. Spring 2019.

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 2.15                    | Rating **    | M  | Issue No.              | 89            |
| LM End   | 2.15                    | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Encroachments           |              |    | 39.187698 °            | 39.187698 °   |
|  |                         |              |    | -121.969020 °          | -121.969020 ° |
| DWR ID   | DWR_ST0003_01_s_2019_89 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| TR : Tree or limb  |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
| The fallen trees should be removed from the waterside toe. |                         |              |    |                        |               |

No Photos

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 2.45                    | Rating **    | M  | Issue No.              | 86            |
| LM End  | 2.46                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Trim / Thin Trees       |              |    | 39.187911 °            | 39.187955 °   |
|   |                         |              |    | -121.974591 °          | -121.974693 ° |
| DWR ID  | DWR_ST0003_01_f_2016_86 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 2.56                        | Rating **    | M  | Issue No.              | 143           |  |
| LM End  | 2.56                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.188768 °            | 39.188768 °   |  |
|   |                             |              |    | -121.976305 °          | -121.976305 ° |  |
| DWR ID  | 17309                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:51660<br>DS_ID:17309<br>EP_NO: 9541<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate.<br>LS appears to be in good condition. (DWR Sutter Yard- AFreitag)<br><br>11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].<br>FS Date: 4/26/2017 10:46:22 AM |                             |              |    |                        |               |  |

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>2.56</b> | Rating **    | M  | Issue No.  | <b>143 (cont)</b> |
| LM End   | <b>2.56</b> | Issue Type + | Ma | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51660\_47027.jpg



Waterside view: overview- concrete surg tank

Photo 2 of 3 : UCIP\_SP\_2019\_51660\_47026.jpg



Waterside view: overview- concrete surg tank

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 2.56                        | Rating **    | M  | Issue No.              | 143 (cont)    |  |
| LM End  | 2.56                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.188768 °            | 39.188768 °   |  |
|   |                             |              |    | -121.976305 °          | -121.976305 ° |  |
| DWR ID  | 17309                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:51660<br>DS_ID:17309<br>EP_NO: 9541<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/24/2017 Still no sign of WS pipe end or flapgate.<br>LS appears to be in good condition. (DWR Sutter Yard- AFreitag)<br><br>11/7/2016 LS culvert measured to be 30"wide X 30"tall. WS end is not visible so could not be measured. (DWR Sutter Yard- AFreitag)6/6/2016 Cannot locate the WS headwall/flapgate. Appears to have been silted over.4/6/2015 Same as last inspection. Concrete surg box on WS. Flap gate in concrete "U" headwall at the waterward end- not found.6/30/2014 Same as last inspection.12/30/2013 Same as last inspection.7/29/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 30-inch reinforced concrete box drainage culvert through the levee, 14.3 feet below the crown. 30-inch corrugated metal pipe connects concrete culvert from slide gate out to flap gate on the waterside (WS) end. Slide gate in a concrete riser on the waterside (WS) slope. (30-inch pipe [HLM 2.49] authorized under Automatic Board Order (ABO) issued as Permit No. 9541, 1974 - Wilbur, McGowan, Zinke). [Additional Reference(s): DWR Levee Logs, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 2.49)].<br>FS Date: 4/26/2017 10:46:22 AM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51660\_47025.jpg



Waterside view: slide gate inside concrete surg tank

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | 2.79                     | Rating **    | M  | Issue No.              | 103           |
| LM End   | 2.79                     | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | Erosion / Bank Caving    |              |    | 39.190671 °            | 39.190671 °   |
|  |                          |              |    | -121.979706 °          | -121.979706 ° |
| DWR ID   | DWR_ST0003_01_s_2019_103 |              |    |                        |               |
| Comment Code   |                          |              |    |                        |               |
| E2 : Schedule repair of erosion site prior to the next inspection. |                          |              |    |                        |               |
| Inspector Comment  |                          |              |    |                        |               |
|  |                          |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_103\_20190418\_00188.jpg



View of the erosion on the landside slope. Spring 2019.

|  |  |  |  |   |  |   |  |
|--|--|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable |  | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | 2.84                     | Rating **    | M  | Issue No.              | 104           |
| LM End  | 2.84                     | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Slope Stability          |              |    | 39.191162 °            | 39.191162 °   |
|   |                          |              |    | -121.980365 °          | -121.980365 ° |
| DWR ID  | DWR_ST0003_01_s_2018_104 |              |    |                        |               |
| Comment Code  |                          |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                          |              |    |                        |               |
| Inspector Comment   |                          |              |    |                        |               |
|   |                          |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_104\_20190327\_00027.jpg



View of the erosion along the waterside slope caused by vehicle traffic.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 3.32                        | Rating **    | U  | Issue No.              | 144           |  |
| LM End  | 3.32                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.196865 °            | 39.196865 °   |  |
|   |                             |              |    | -121.985280 °          | -121.985280 ° |  |
| DWR ID  | 17311                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:52949<br>DS_ID:17311<br>EP_NO: N/A<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM |                             |              |    |                        |               |  |

Photo 1 of 3 : UCIP\_SP\_2019\_52949\_76919.jpg



LS view of water exiting the pipe.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 3.32                        | Rating **    | U  | Issue No.              | 144 (cont)    |  |
| LM End  | 3.32                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.196865 °            | 39.196865 °   |  |
|   |                             |              |    | -121.985280 °          | -121.985280 ° |  |
| DWR ID  | 17311                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:52949<br>DS_ID:17311<br>EP_NO: N/A<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM |                             |              |    |                        |               |  |

Photo 2 of 3 : UCIP\_SP\_2019\_52949\_76920.jpg



LS view from levee shoulder

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 3.32                        | Rating **    | U  | Issue No.              | 144 (cont)    |  |
| LM End  | 3.32                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.196865 °            | 39.196865 °   |  |
|   |                             |              |    | -121.985280 °          | -121.985280 ° |  |
| DWR ID  | 17311                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:52949<br>DS_ID:17311<br>EP_NO: N/A<br>Repair Type: Urgent<br>Crossing Status: Found<br>UCIP Comments: 8/30/2018 Pipe found; at a different Lat/Long than is listed, however. Revised Lat/Long is (39.196865, -121.985280; CLM 3.32). WS pipe end is visible and has a functioning slide gate; LS pipe end is exposed with no closure device or headwall. Keeping as Urgent because the LS pipe discharges into a hole and could pose a threat to the levee prism during a high water event. There are also cracks on the crown that could be related to the pipe beneath. Recommend an internal pipe inspection to be sure of the levee integrity (D.Sanoski - DWR UCIP).4/6/2017 Pipe was found in January 2017 during a high water event when water uncovered the buried WS end which led to uncontrolled water flow through during the high water event. The WS pipe opening was temporarily blocked off by plywood and sandbags until the pipe can be properly plugged or abandoned. Pics updated. (DWR Sutter Yard- Afreitag)11/7/2016 Unable to locate. (DWR Sutter Yard- AFreitag)6/6/2016 Unable to locate.4/6/2015 Unable to locate.6/30/2014 Unable to locate.12/30/2013 Unable to locate.7/29/2013 Same as last inspection. Unable to locate. FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 12.4 feet below the crown. Slide gate on the waterside (WS) end. (Automatic Board Order (ABO) issued as Permit No. 9539, 1974 - Locvich). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 3.25)]. FS Date: 8/30/2018 1:45:35 PM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_52949\_76921.jpg



WS view of the temporary plug on WS end.

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|





**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | 3.71                     | Rating **    | M  | Issue No.              | 108           |
| LM End  | 3.71                     | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Encroachments            |              |    | 39.202300 °            | 39.202300 °   |
|   |                          |              |    | -121.983736 °          | -121.983736 ° |
| DWR ID  | DWR_ST0003_01_s_2019_108 |              |    |                        |               |
| Comment Code  |                          |              |    |                        |               |
| TR : Tree or limb   |                          |              |    |                        |               |
| Inspector Comment   |                          |              |    |                        |               |
| The large trees should be removed from the waterside slope. |                          |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_108\_20190418\_00189.jpg



View of the tree on the waterside slope. Spring 2019.

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | 3.78                     | Rating **    | M  | Issue No.              | 109           |
| LM End   | 3.78                     | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | Encroachments            |              |    | 39.203255 °            | 39.203255 °   |
|  |                          |              |    | -121.983195 °          | -121.983195 ° |
| DWR ID   | DWR_ST0003_01_s_2019_109 |              |    |                        |               |
| Comment Code   |                          |              |    |                        |               |
| TR : Tree or limb  |                          |              |    |                        |               |
| Inspector Comment  |                          |              |    |                        |               |
| The large tree should be removed from the waterside toe. |                          |              |    |                        |               |

No Photos

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | 4.24                     | Rating **    | M  | Issue No.              | 110           |
| LM End  | 4.24                     | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Encroachments            |              |    | 39.208838 °            | 39.208838 °   |
|   |                          |              |    | -121.985084 °          | -121.985084 ° |
| DWR ID  | DWR_ST0003_01_s_2019_110 |              |    |                        |               |
| Comment Code  |                          |              |    |                        |               |
| TR : Tree or limb   |                          |              |    |                        |               |
| Inspector Comment   |                          |              |    |                        |               |
| The large fallen tree should be removed from the waterside slope. |                          |              |    |                        |               |

No Photos

|  |  |  |  |   |  |   |  |
|--|--|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable |  | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | 4.74                     | Rating **    | M  | Issue No.              | 105           |
| LM End   | 4.84                     | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | Vegetation               |              |    | 39.213390 °            | 39.214107 °   |
|  |                          |              |    | -121.991860 °          | -121.993489 ° |
| DWR ID   | DWR_ST0003_01_f_2016_105 |              |    |                        |               |
| Comment Code   |                          |              |    |                        |               |
| V2 : Remove the wild growth other than native grasses from the levee slopes. |                          |              |    |                        |               |
| Inspector Comment  |                          |              |    |                        |               |
|  |                          |              |    |                        |               |

No Photos

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | 5.91                     | Rating **    | M  | Issue No.              | 116           |
| LM End  | 5.91                     | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Trim / Thin Trees        |              |    | 39.220711 °            | 39.220711 °   |
|   |                          |              |    | -122.005703 °          | -122.005703 ° |
| DWR ID  | DWR_ST0003_01_s_2019_116 |              |    |                        |               |
| Comment Code  |                          |              |    |                        |               |
| T1 : Trim trees to at least five feet above ground level. |                          |              |    |                        |               |
| Inspector Comment   |                          |              |    |                        |               |
|   |                          |              |    |                        |               |

No Photos

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 6.47                    | Rating **    | M  | Issue No.              | 99            |
| LM End   | 6.47                    | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Vegetation              |              |    | 39.224719 °            | 39.224719 °   |
|  |                         |              |    | -121.998623 °          | -121.998623 ° |
| DWR ID   | DWR_ST0003_01_f_2016_99 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| V2 : Remove the wild growth other than native grasses from the levee slopes. |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
|  |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_99\_20190327\_00024.jpg



View of the overgrown vegetation along the landside slope.

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start                                      | 6.47                     | Rating **    | C  | Issue No.              | 106           |
| LM End  | 6.47                     | Issue Type + | Ma | Location *             | LS            |
| Category                                      | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Encroachments            |              |    | 39.224812 °            | 39.224812 °   |
|   |                          |              |    | -121.998615 °          | -121.998615 ° |
| DWR ID  | DWR_ST0003_01_s_2018_106 |              |    |                        |               |
| Comment Code                                  |                          |              |    |                        |               |
| TR : Tree or limb                             |                          |              |    |                        |               |
| Inspector Comment                             |                          |              |    |                        |               |
| Remove the down tree from the landside slope. |                          |              |    |                        |               |

No Photos

|                                |                         |              |    |                        |               |
|--------------------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start                       | 6.75                    | Rating **    | M  | Issue No.              | 97            |
| LM End                         | 6.75                    | Issue Type + | Ma | Location *             | WS            |
| Category                       | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                                |                         |              |    | Start                  | End           |
| Item                           | Slope Stability         |              |    | 39.228291 °            | 39.228291 °   |
|                                |                         |              |    | -121.998579 °          | -121.998579 ° |
| DWR ID                         | DWR_ST0003_01_f_2016_97 |              |    |                        |               |
| Comment Code                   |                         |              |    |                        |               |
| S1 : Repair slope instability. |                         |              |    |                        |               |
| Inspector Comment              |                         |              |    |                        |               |
|                                |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_97\_20190418\_00190.jpg



View of rodent activity, erosion and caving on the waterside slope and shoulder. Spring 2019.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector      |
|------------------------------|------|------------|--------------------------|----------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar<br>Sokol |

|  |                          |              |    |                        |               |
|--|--------------------------|--------------|----|------------------------|---------------|
| LM Start   | 6.76                     | Rating **    | M  | Issue No.              | 136           |
| LM End   | 6.79                     | Issue Type + | Ma | Location *             | WS            |
| Category   | Supplemental             |              |    | GPS Latitude/Longitude |               |
|  |                          |              |    | Start                  | End           |
| Item   | 2017 Storm Damage        |              |    | 39.228311 °            | 39.228730 °   |
|  |                          |              |    | -121.998555 °          | -121.998109 ° |
| DWR ID   | DWR_ST0003_01_f_2017_136 |              |    |                        |               |
| Comment Code   |                          |              |    |                        |               |
|  |                          |              |    |                        |               |
| Inspector Comment  |                          |              |    |                        |               |
| Levee Evaluation Comments  |                          |              |    |                        |               |
| Description:   |                          |              |    |                        |               |
| Site ID No:11  |                          |              |    |                        |               |
| Site Designation:DWR_ST0003_01_s_2012_30   |                          |              |    |                        |               |
| Repair Type: Erosion   |                          |              |    |                        |               |
| Rating:Area of Concern   |                          |              |    |                        |               |
| Field Date:6/7/2017  |                          |              |    |                        |               |
| Notes: Rodent activity seems to be the source of the problem. Local runoff/rainfall eroded the rodent holes to an advanced state of erosion that could continue with future exposure to wet conditions. Simple fix for the issue would be to grout the holes. Problem levee is a set-back levee. |                          |              |    |                        |               |

No Photos

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |
|---|-----------------------------|--------------|----|------------------------|---------------|
| LM Start  | 7.72                        | Rating **    | M  | Issue No.              | 160           |
| LM End  | 7.72                        | Issue Type + | Ma | Location *             |               |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |
|   |                             |              |    | Start                  | End           |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.239458 °            | 39.239458 °   |
|   |                             |              |    | -121.993398 °          | -121.993398 ° |
| DWR ID  | 17301                       |              |    |                        |               |
| Comment Code  |                             |              |    |                        |               |
|   |                             |              |    |                        |               |
| Inspector Comment   |                             |              |    |                        |               |
| FS_ID:51695<br>DS_ID:17301<br>EP_NO: 9532<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].<br>FS Date: 4/26/2017 2:38:29 PM |                             |              |    |                        |               |

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>7.72</b> | Rating **    | M  | Issue No.  | <b>160 (cont)</b> |
| LM End   | <b>7.72</b> | Issue Type + | Ma | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51695\_77008.jpg



Depression around WS concrete box

Photo 2 of 3 : UCIP\_SP\_2019\_51695\_77009.jpg



depression around WS concrete box

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 7.72                        | Rating **    | M  | Issue No.              | 160 (cont)    |  |
| LM End  | 7.72                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.239458 °            | 39.239458 °   |  |
|   |                             |              |    | -121.993398 °          | -121.993398 ° |  |
| DWR ID  | 17301                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:51695<br>DS_ID:17301<br>EP_NO: 9532<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 Abandoned- erosion/depression present around the WS box (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned and erosion still present near WS box.(DWR Sutter Yard- AFreitag)6/1/2016 Appears to be an abandoned crossing.4/1/2015 Silted concrete box on WS. Depression/erosion around concrete box on WS.Silted concrete box on WS. Depression/erosion around concrete box on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch by 48-inch reinforced concrete box drainage culvert through the levee, 11.6 feet below the crown. Slide gate in a concrete box on the waterside (WS) slope. (3-foot by 4-foot culvert [HLM 7.73] authorized under Automatic Board Order (ABO) issued as Permit No. 9532, 1974 - Martin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 7.73)].<br>FS Date: 4/26/2017 2:38:29 PM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51695\_77010.jpg



WS concrete box full of silt.

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 8.32                        | Rating **    | M  | Issue No.              | 161           |  |
| LM End  | 8.32                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.246317 °            | 39.246317 °   |  |
|   |                             |              |    | -121.998825 °          | -121.998825 ° |  |
| DWR ID  | 17304                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:51698<br>DS_ID:17304<br>EP_NO: 9529<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 Abandoned- needs to be done properly.<br>(DWR Sutter Yard- AFreitag)10/31/2016 Abandoned (DWR Sutter<br>Yard- AFreitag)6/1/2016 Abandoned- only WS riser and slide gate<br>found.4/1/2015 CMP riser and slide gate on WS. LS distribution box<br>is silted in. Looks abandoned. CMP riser with slide gate on WS.<br>Concrete distribution box on LS- full with silt.6/30/2014 Same as last<br>inspection.12/18/2013 Same as last inspection.7/23/2013 Same as<br>last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal<br>drainage pipe through the levee, invert 12.8 feet below the crown. Slide<br>gate in a corrugated metal pipe (CMP) riser on the waterside (WS)<br>slope. Concrete box at the landside (LS) toe. (24-inch pipe [HLM 8.35]<br>authorized under Automatic Board Order (ABO) issued as Permit No.<br>9529, 1974 - Dorwood Ranching Company). [Additional Reference(s):<br>DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March<br>1960 (HLM 8.35)].<br>FS Date: 4/26/2017 2:54:54 PM |                             |              |    |                        |               |  |

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>8.32</b> | Rating **    | M  | Issue No.  | <b>161 (cont)</b> |
| LM End   | <b>8.32</b> | Issue Type + | Ma | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51698\_47202.jpg



Crown view: overview (both sides of the levee)

Photo 2 of 3 : UCIP\_SP\_2019\_51698\_47201.jpg



Waterside view: overview of CMP riser

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |





**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |     |                        |               |
|----------|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 8.52                        | Rating **    | A/W | Issue No.              | 163           |
| LM End   | 8.52                        | Issue Type + | Ma  | Location *             |               |
| Category | Supplemental                |              |     | GPS Latitude/Longitude |               |
|          |                             |              |     | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |     | 39.249125 °            | 39.249125 °   |
|          |                             |              |     | -121.999031 °          | -121.999031 ° |
| DWR ID   | 17295                       |              |     |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:51725  
DS\_ID:17295  
EP\_NO: 9529  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)  
4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]  
FS Date: 5/1/2017 8:37:22 AM

Photo 1 of 3 : UCIP\_SP\_2019\_51725\_47208.jpg



Waterside view: overview of CMP riser

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|   | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |     |                        |               |  |
|---|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start  | 8.52                        | Rating **    | A/W | Issue No.              | 163 (cont)    |  |
| LM End  | 8.52                        | Issue Type + | Ma  | Location *             |               |  |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|   |                             |              |     | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.249125 °            | 39.249125 °   |  |
|   |                             |              |     | -121.999031 °          | -121.999031 ° |  |
| DWR ID  | 17295                       |              |     |                        |               |  |
| Comment Code  |                             |              |     |                        |               |  |
|   |                             |              |     |                        |               |  |
| Inspector Comment   |                             |              |     |                        |               |  |
| FS_ID:51725<br>DS_ID:17295<br>EP_NO: 9529<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)<br>4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]<br>FS Date: 5/1/2017 8:37:22 AM |                             |              |     |                        |               |  |

Photo 2 of 3 : UCIP\_SP\_2019\_51725\_47207.jpg



Landside view: overview (no pipes)

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |     |                        |               |  |
|----------|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start | 8.52                        | Rating **    | A/W | Issue No.              | 163 (cont)    |  |
| LM End   | 8.52                        | Issue Type + | Ma  | Location *             |               |  |
| Category | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|          |                             |              |     | Start                  | End           |  |
| Item     | DWR UCIP LMA Responsibility |              |     | 39.249125 °            | 39.249125 °   |  |
|          |                             |              |     | -121.999031 °          | -121.999031 ° |  |
| DWR ID   | 17295                       |              |     |                        |               |  |

**Comment Code**

**Inspector Comment**

FS\_ID:51725  
 DS\_ID:17295  
 EP\_NO: 9529  
 Repair Type: No Action Needed  
 Crossing Status: Found  
 UCIP Comments: 09/21/2017 Permit review indicates this 24-inch pipe was authorized as an irrigation and drainage pipe under ABO issued as Permit No. 9529, structure description was updated. Structure type logged as drainage. (DWR UCIP - O. Magana)  
 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was exposed and camera inspected by Nor-Cal Pipeline Services 10/29/2015. Photos of the exposed pipe ends were uploaded on 4/1/2015. The internal inspection showed some signs of rust but no visible holes or deterioration were found. After the inspection the pipe ends were capped and reburied.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/4/2016 Proper abandonment of pipe is needed. Pipe has been buried again after it was dug up and video inspected, so was not visible on LS. Note that landowner has regraded LS slope so drainage is now to the east (toward LS).4/1/2015 Both WS and LS pipe ends have been dug up in preparation for an internal camera inspection. Pipe shows signs of heavy rust and both ends of pipe are plugged with soil.Only a CMP riser with slide gate found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
 FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch irrigation and drainage pipe through the levee, invert 11.5 feet below the crown. Slide gate in a corrugated metal pipe (CMP) riser on the waterside (WS) slope. (24-inch pipe [HLM 8.55] authorized under Automatic Board Order (ABO) issued as Permit No. 9529, 1974 - Dorwood Ranching Co.) [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.55)]  
 FS Date: 5/1/2017 8:37:22 AM

Photo 3 of 3 : UCIP\_SP\_2019\_51725\_73640.jpg



WS pipe end

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 8.56                        | Rating **    | M  | Issue No.              | 164           |
| LM End   | 8.56                        | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.249678 °            | 39.249678 °   |
|          |                             |              |    | -121.999021 °          | -121.999021 ° |
| DWR ID   | 17327                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:51726  
DS\_ID:17327  
EP\_NO: 9528  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].  
FS Date: 5/1/2017 8:51:02 AM

|          |             |              |    |            |                   |
|----------|-------------|--------------|----|------------|-------------------|
| LM Start | <b>8.56</b> | Rating **    | M  | Issue No.  | <b>164 (cont)</b> |
| LM End   | <b>8.56</b> | Issue Type + | Ma | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51726\_47210.jpg



Waterside view: overview

Photo 2 of 3 : UCIP\_SP\_2019\_51726\_47209.jpg



Waterside view: buried slide gate

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |    |                        |               |  |
|---|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start  | 8.56                        | Rating **    | M  | Issue No.              | 164 (cont)    |  |
| LM End  | 8.56                        | Issue Type + | Ma | Location *             |               |  |
| Category  | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|   |                             |              |    | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |    | 39.249678 °            | 39.249678 °   |  |
|   |                             |              |    | -121.999021 °          | -121.999021 ° |  |
| DWR ID  | 17327                       |              |    |                        |               |  |
| Comment Code  |                             |              |    |                        |               |  |
|   |                             |              |    |                        |               |  |
| Inspector Comment   |                             |              |    |                        |               |  |
| FS_ID:51726<br>DS_ID:17327<br>EP_NO: 9528<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected by Nor-Cal Pipeline Services on 10/29/2015. Pipe length through levee is 75.1ft long. The inspection showed some signs of rust but no holes or other deterioration were found. Pics of exposed pipe ends were uploaded on 4/1/2015. After the inspection the pipe ends were capped and reburied.4/14/2016- Same as last inspection.4/1/2015- Both ends of pipe have been dug up in preparation for internal camera inspections. Pipe shows some rust but appears to be in decent shape. Only buried slide gate structure found.6/30/2014- Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 12.5 feet below the crown. Slide gate on the waterside (WS). (Automatic Board Order (ABO) issued as Permit No. 9528, 1974 - Lamb). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 8.59)].<br>FS Date: 5/1/2017 8:51:02 AM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51726\_73649.jpg



WS pipe end

|                   |                          |              |    |                        |               |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start          | 8.77                     | Rating **    | U  | Issue No.              | 119           |
| LM End            | 8.77                     | Issue Type + | Ma | Location *             | CR            |
| Category          | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|                   |                          |              |    | Start                  | End           |
| Item              | Encroachments            |              |    | 39.252515 °            | 39.252515 °   |
|                   |                          |              |    | -121.997678 °          | -121.997678 ° |
| DWR ID            | DWR_ST0003_01_s_2019_119 |              |    |                        |               |
| Comment Code      |                          |              |    |                        |               |
| TR : Tree or limb |                          |              |    |                        |               |
| Inspector Comment |                          |              |    |                        |               |
|                   |                          |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_119\_20190418\_00191.jpg



View of a large fallen tree blocking access. Spring 2019.

|  |  |  |  |   |  |   |  |
|--|--|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable |  | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 8.92                    | Rating **    | N  | Issue No.              | 92            |
| LM End            | 8.92                    | Issue Type + | Ma | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Trim / Thin Trees       |              |    | 39.254563 °            | 39.254563 °   |
|                   |                         |              |    | -121.997493 °          | -121.997493 ° |
| DWR ID            | DWR_ST0003_01_f_2016_92 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| T5 : Tree stumps. |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

No Photos

|                   |                          |              |    |                        |               |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start          | 9.03                     | Rating **    | C  | Issue No.              | 122           |
| LM End            | 9.03                     | Issue Type + | Ma | Location *             | WS            |
| Category          | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|                   |                          |              |    | Start                  | End           |
| Item              | Encroachments            |              |    | 39.256140 °            | 39.256140 °   |
|                   |                          |              |    | -121.997787 °          | -121.997787 ° |
| DWR ID            | DWR_ST0003_01_s_2017_122 |              |    |                        |               |
| Comment Code      |                          |              |    |                        |               |
| TR : Tree or limb |                          |              |    |                        |               |
| Inspector Comment |                          |              |    |                        |               |
|                   |                          |              |    |                        |               |

No Photos

|                   |                         |              |    |                        |    |               |
|-------------------|-------------------------|--------------|----|------------------------|----|---------------|
| LM Start          | 9.03                    | Rating **    | N  | Issue No.              | 91 |               |
| LM End            | 9.03                    | Issue Type + | Ma | Location *             | LS |               |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |    |               |
|                   |                         |              |    | Start                  |    | End           |
| Item              | Trim / Thin Trees       |              |    | 39.256141 °            |    | 39.256141 °   |
|                   |                         |              |    | -121.997785 °          |    | -121.997785 ° |
| DWR ID            | DWR_ST0003_01_f_2016_91 |              |    |                        |    |               |
| Comment Code      |                         |              |    |                        |    |               |
| T5 : Tree stumps. |                         |              |    |                        |    |               |
| Inspector Comment |                         |              |    |                        |    |               |
|                   |                         |              |    |                        |    |               |

No Photos

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector      |
|------------------------------|------|------------|--------------------------|----------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar<br>Sokol |

|                   |                         |              |    |                        |               |
|-------------------|-------------------------|--------------|----|------------------------|---------------|
| LM Start          | 9.17                    | Rating **    | N  | Issue No.              | 90            |
| LM End            | 9.17                    | Issue Type + | Ma | Location *             | LS            |
| Category          | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|                   |                         |              |    | Start                  | End           |
| Item              | Trim / Thin Trees       |              |    | 39.257688 °            | 39.257688 °   |
|                   |                         |              |    | -121.999331 °          | -121.999331 ° |
| DWR ID            | DWR_ST0003_01_f_2016_90 |              |    |                        |               |
| Comment Code      |                         |              |    |                        |               |
| T5 : Tree stumps. |                         |              |    |                        |               |
| Inspector Comment |                         |              |    |                        |               |
|                   |                         |              |    |                        |               |

No Photos

|   |                          |              |    |                        |               |
|---|--------------------------|--------------|----|------------------------|---------------|
| LM Start  | 9.29                     | Rating **    | M  | Issue No.              | 121           |
| LM End  | 9.29                     | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|   |                          |              |    | Start                  | End           |
| Item  | Encroachments            |              |    | 39.258854 °            | 39.258854 °   |
|   |                          |              |    | -122.000705 °          | -122.000705 ° |
| DWR ID  | DWR_ST0003_01_s_2019_121 |              |    |                        |               |
| Comment Code  |                          |              |    |                        |               |
| TR : Tree or limb   |                          |              |    |                        |               |
| Inspector Comment   |                          |              |    |                        |               |
| The fallen tree should be removed from the waterside slope. |                          |              |    |                        |               |

No Photos

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |            |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | <b>9.37</b>                 | Rating **    | A/W                    | Issue No.     | <b>167</b> |
| LM End   | <b>9.37</b>                 | Issue Type + | Ma                     | Location *    |            |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |            |
|          |                             |              | Start                  | End           |            |
| Item     | DWR UCIP LMA Responsibility |              | 39.260034 °            | 39.260034 °   |            |
|          |                             |              | -122.000970 °          | -122.000970 ° |            |
| DWR ID   | 17355                       |              |                        |               |            |

**Comment Code**

**Inspector Comment**

FS\_ID:51731  
DS\_ID:17355  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].  
FS Date: 5/1/2017 9:16:26 AM

|          |             |              |     |            |                   |
|----------|-------------|--------------|-----|------------|-------------------|
| LM Start | <b>9.37</b> | Rating **    | A/W | Issue No.  | <b>167 (cont)</b> |
| LM End   | <b>9.37</b> | Issue Type + | Ma  | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51731\_47242.jpg



Waterside view: overview

Photo 2 of 3 : UCIP\_SP\_2019\_51731\_47241.jpg



Waterside view: overview of CMP pipe

|  |  |  |  |   |  |   |  |
|--|--|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable |  | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|--|--|---|--|---|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |     |                        |               |  |
|---|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start  | 9.37                        | Rating **    | A/W | Issue No.              | 167 (cont)    |  |
| LM End  | 9.37                        | Issue Type + | Ma  | Location *             |               |  |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|   |                             |              |     | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.260034 °            | 39.260034 °   |  |
|   |                             |              |     | -122.000970 °          | -122.000970 ° |  |
| DWR ID  | 17355                       |              |     |                        |               |  |
| Comment Code  |                             |              |     |                        |               |  |
|   |                             |              |     |                        |               |  |
| Inspector Comment   |                             |              |     |                        |               |  |
| FS_ID:51731<br>DS_ID:17355<br>EP_NO: N/A<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- Afreitag)10/31/2016 Abandoned. (DWR Sutter Yard- Afreitag)6/13/2016 Pipe was internally cleaned and camera inspected on 10/30/2015 by Nor-Cal Pipeline Services. WS cap was removed and 100.6ft of pipe were inspected starting from the WS opening. Inspection revealed rusting but no visible holes or other deterioration were found. Pipe was recapped after the inspection. This pipe is always visible so no new photos were taken during the inspection.6/9/2016 Khalida Fazel of UCIP requests that any photos of the pipe when it was exposed for a video inspection be kindly uploaded here.4/1/2015 Pipe is in same condition. It has been selected for an internal camera inspection. New CMP pipe on WS capped with steel plate.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 13.5 feet below the crown. Slide gate on the landside (LS) headwall. Steel plate welded on the waterside (WS) end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 9.4)].<br>FS Date: 5/1/2017 9:16:26 AM |                             |              |     |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51731\_47240.jpg



Waterside view: capped CMP pipe

|                   |                          |              |    |                        |               |
|-------------------|--------------------------|--------------|----|------------------------|---------------|
| LM Start          | 10.14                    | Rating **    | M  | Issue No.              | 123           |
| LM End            | 10.14                    | Issue Type + | Ma | Location *             | WS            |
| Category          | Earthen Levee            |              |    | GPS Latitude/Longitude |               |
|                   |                          |              |    | Start                  | End           |
| Item              | Encroachments            |              |    | 39.269581 °            | 39.269581 °   |
|                   |                          |              |    | -121.997579 °          | -121.997579 ° |
| DWR ID            | DWR_ST0003_01_s_2019_123 |              |    |                        |               |
| Comment Code      |                          |              |    |                        |               |
| TR : Tree or limb |                          |              |    |                        |               |
| Inspector Comment |                          |              |    |                        |               |
|                   |                          |              |    |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |               |                        |     |
|--|-----------------------------|--------------|---------------|------------------------|-----|
| LM Start   | 10.35                       | Rating **    | A/W           | Issue No.              | 168 |
| LM End   | 10.35                       | Issue Type + | Ma            | Location *             |     |
| Category   | Supplemental                |              |               | GPS Latitude/Longitude |     |
|  |                             |              |               | Start                  | End |
| Item   | DWR UCIP LMA Responsibility |              | 39.270492 °   | 39.270492 °            |     |
|  |                             |              | -122.001306 ° | -122.001306 °          |     |
| DWR ID   | 17358                       |              |               |                        |     |
| Comment Code   |                             |              |               |                        |     |
|  |                             |              |               |                        |     |
| Inspector Comment  |                             |              |               |                        |     |
| FS_ID:51734<br>DS_ID:17358<br>EP_NO: 9517<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard- Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].<br>FS Date: 5/1/2017 9:32:45 AM |                             |              |               |                        |     |

Photo 1 of 3 : UCIP\_SP\_2019\_51734\_47263.jpg



Crown view: overview (both sides of the levee)

|          |              |              |     |            |                   |
|----------|--------------|--------------|-----|------------|-------------------|
| LM Start | <b>10.35</b> | Rating **    | A/W | Issue No.  | <b>168 (cont)</b> |
| LM End   | <b>10.35</b> | Issue Type + | Ma  | Location * |                   |

Photo 2 of 3 : UCIP\_SP\_2019\_51734\_47262.jpg



Waterside view: overview of CMP riser

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |     |                        |               |  |
|--|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start   | 10.35                       | Rating **    | A/W | Issue No.              | 168 (cont)    |  |
| LM End   | 10.35                       | Issue Type + | Ma  | Location *             |               |  |
| Category   | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|  |                             |              |     | Start                  | End           |  |
| Item   | DWR UCIP LMA Responsibility |              |     | 39.270492 °            | 39.270492 °   |  |
|  |                             |              |     | -122.001306 °          | -122.001306 ° |  |
| DWR ID   | 17358                       |              |     |                        |               |  |
| Comment Code   |                             |              |     |                        |               |  |
|  |                             |              |     |                        |               |  |
| Inspector Comment  |                             |              |     |                        |               |  |
| FS_ID:51734<br>DS_ID:17358<br>EP_NO: 9517<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/19/2017 No WS end found/ slide gate handle broken. (DWR Sutter Yard- Afreitag)10/31/2016 Slide gate handle is broken and no WS pipe end can be located. (DWR Sutter Yard- Afreitag)6/1/2016 WS slide gate handle is still broken. No WS pipe end was found.4/1/2015 Slide gate handle is still broken. The rest of the pipe appears in good condition. Broken slide gate handle found on WS.6/30/2014 Same as last inspection.12/18/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 48-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Slide gate in a concrete distribution box on the landside (LS) toe. (48-inch pipe [HLM 10.39] authorized under Automatic Board Order (ABO) issued as Permit No. 9517, 1974 - Griffin). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 10.47)].<br>FS Date: 5/1/2017 9:32:45 AM |                             |              |     |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51734\_47268.jpg



Waterside view: inside CMP riser

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 10.36                  | Rating **    | M  | Issue No.              | 5             |
| LM End  | 10.36                  | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Vegetation             |              |    | 39.270503 °            | 39.270503 °   |
|   |                        |              |    | -122.001339 °          | -122.001339 ° |
| DWR ID  | DWR_ST0003_01_s_2012_5 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| V4 : Elderberries are blocking visibility and flood fight capability. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
| The elderberry is partially blocking visibility.                      |                        |              |    |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                                  |              |     |                        |               |
|---|----------------------------------|--------------|-----|------------------------|---------------|
| LM Start  | 11.53                            | Rating **    | A/W | Issue No.              | 8             |
| LM End  | 11.79                            | Issue Type + | Ma  | Location *             | WS            |
| Category  | Supplemental                     |              |     | GPS Latitude/Longitude |               |
|   |                                  |              |     | Start                  | End           |
| Item  | 2017 USACE Erosion Survey, DRAFT |              |     | 39.279910 °            | 39.283853 °   |
|   |                                  |              |     | -122.018221 °          | -122.016113 ° |
| DWR ID  | DWR_ST0003_01_f_2018_8           |              |     |                        |               |
| Comment Code  |                                  |              |     |                        |               |
|   |                                  |              |     |                        |               |
| Inspector Comment   |                                  |              |     |                        |               |
| 2017 Site ID: SAC 152.6 L   |                                  |              |     |                        |               |
| Status: Eroding   |                                  |              |     |                        |               |
| 2017 Field Notes: Access Issues - Could not observe   |                                  |              |     |                        |               |
| Site History: 2008 - Large rotational/mass failure in the bank with tree slump. 2009 - Minimal new erosion, the tree is leaning further into the river. 2011 - Site extended downstream. 2012 - Minor new erosion and tree roots are further exposed. |                                  |              |     |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_8\_20190327\_00006.jpg



USACE 2013 Photo #1

|   |                                  |              |     |                        |               |
|---|----------------------------------|--------------|-----|------------------------|---------------|
| LM Start  | 11.85                            | Rating **    | A/W | Issue No.              | 13            |
| LM End  | 11.90                            | Issue Type + | Ma  | Location *             | WS            |
| Category  | Supplemental                     |              |     | GPS Latitude/Longitude |               |
|   |                                  |              |     | Start                  | End           |
| Item  | 2017 USACE Erosion Survey, DRAFT |              |     | 39.284568 °            | 39.285298 °   |
|   |                                  |              |     | -122.015690 °          | -122.015208 ° |
| DWR ID  | DWR_ST0003_01_f_2018_13          |              |     |                        |               |
| Comment Code  |                                  |              |     |                        |               |
|   |                                  |              |     |                        |               |
| Inspector Comment   |                                  |              |     |                        |               |
| 2017 Site ID: SAC 152.8 L   |                                  |              |     |                        |               |
| Status: Eroding   |                                  |              |     |                        |               |
| 2017 Field Notes: Minor new erosion observed.   |                                  |              |     |                        |               |
| Site History: 2006 - Large rotational/mass failure in the bank with tree slump. Tough clayey toe material. 2007 - Site is between stone revetments with a pump station at the downstream end. 2010 - Erosion is into the levee toe. 2011 - Minor new erosion. 2012 - Minor new erosion. |                                  |              |     |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_13\_20190327\_00009.jpg



USACE 2013 Photo #1

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|---|--|--|--|--|--|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |     |
|----------|-----------------------------|--------------|------------------------|---------------|-----|
| LM Start | 13.38                       | Rating **    | M                      | Issue No.     | 176 |
| LM End   | 13.38                       | Issue Type + | Ma                     | Location *    |     |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |     |
|          |                             |              | Start                  | End           |     |
| Item     | DWR UCIP LMA Responsibility |              | 39.306065 °            | 39.306065 °   |     |
|          |                             |              | -122.013112 °          | -122.013112 ° |     |
| DWR ID   | 17340                       |              |                        |               |     |

**Comment Code**

**Inspector Comment**

FS\_ID:51749  
DS\_ID:17340  
EP\_NO: 9511  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].  
FS Date: 5/1/2017 10:27:34 AM

Photo 1 of 3 : UCIP\_SP\_2019\_51749\_47343.jpg



Waterside view: CMP riser with slide gate

|   |  |  |  |  |
|---|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|---|--|--|--|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |            |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | 13.38                       | Rating **    | M                      | Issue No.     | 176 (cont) |
| LM End   | 13.38                       | Issue Type + | Ma                     | Location *    |            |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |            |
|          |                             |              | Start                  | End           |            |
| Item     | DWR UCIP LMA Responsibility |              | 39.306065 °            | 39.306065 °   |            |
|          |                             |              | -122.013112 °          | -122.013112 ° |            |
| DWR ID   | 17340                       |              |                        |               |            |

**Comment Code**

**Inspector Comment**

FS\_ID:51749  
 DS\_ID:17340  
 EP\_NO: 9511  
 Repair Type: Non-Urgent  
 Crossing Status: Found  
 UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
 FIELD\_STRUCT\_DESC: \*ABANDONED\* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].  
 FS Date: 5/1/2017 10:27:34 AM

Photo 2 of 3 : UCIP\_SP\_2019\_51749\_47342.jpg



Waterside view: overview of CMP riser and outlet pipe

|   |  |  |  |  |
|---|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|---|--|--|--|--|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |            |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | 13.38                       | Rating **    | M                      | Issue No.     | 176 (cont) |
| LM End   | 13.38                       | Issue Type + | Ma                     | Location *    |            |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |            |
|          |                             |              | Start                  | End           |            |
| Item     | DWR UCIP LMA Responsibility |              | 39.306065 °            | 39.306065 °   |            |
|          |                             |              | -122.013112 °          | -122.013112 ° |            |
| DWR ID   | 17340                       |              |                        |               |            |

**Comment Code**

**Inspector Comment**

FS\_ID:51749  
DS\_ID:17340  
EP\_NO: 9511  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. A oak tree has fallen down onto the WS pipe end. It does not appear to have damaged the pipe but it will need to be better inspected after the tree has been cleared away. (DWR Sutter Yard- AFreitag)10/31/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/6/2015 by Nor-Cal Pipeline Services. The 48" cmp pipe section that runs through the levee was deemed to be in good condition. After the LS levee toe the pipe changes to a 48" concrete box culvert for under the roadway and that showed signs of some cracking. After the inspection the WS end was capped to keep sediment out until further abandonment can be achieved.4/16/2016 A wooden board has been placed on WS outlet of pipe to prevent sediment from entering pipe. This is a temporary repair measure by Sutter Yard until pipe can be grouted. Need to contact owner to ensure pipe's proper abandonment. Blockage of pipe outlet by wooden board or sediment will pose a hazard during high water. Pipe owner unclear, as landowner differs on LS and WS.4/2/2015 Pipe has been selected for internal camera inspection.Outlet pipe silted on WS. Inlet structure damaged on LS. Not properly abandoned.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: \*ABANDONED\* 48-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Slide gate in a 60-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Landside (LS) end of pipe on east side of River Road. Pipe is not in use but is operable. (48-inch pipe [HLM 13.37] authorized under Permit No. 9511, 1974 - Moresco). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 13.37)].  
FS Date: 5/1/2017 10:27:34 AM

Photo 3 of 3 : UCIP\_SP\_2019\_51749\_47341.jpg



Waterside view: silted concrete lined CMP outlet pipe

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 13.43                   | Rating **    | M  | Issue No.              | 75            |
| LM End  | 13.43                   | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Slope Stability         |              |    | 39.306919 °            | 39.306919 °   |
|   |                         |              |    | -122.013076 °          | -122.013076 ° |
| DWR ID  | DWR_ST0003_01_f_2016_75 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_264\_75\_20190327\_00015.jpg



View of the slope instability along the waterside slope.

|  |                             |              |     |                        |               |  |
|--|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start   | 14.50                       | Rating **    | A/W | Issue No.              | 178           |  |
| LM End   | 14.50                       | Issue Type + | Ma  | Location *             |               |  |
| Category   | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|  |                             |              |     | Start                  | End           |  |
| Item   | DWR UCIP LMA Responsibility |              |     | 39.321429 °            | 39.321429 °   |  |
|  |                             |              |     | -122.016079 °          | -122.016079 ° |  |
| DWR ID   | 17330                       |              |     |                        |               |  |
| Comment Code   |                             |              |     |                        |               |  |
|  |                             |              |     |                        |               |  |
| Inspector Comment  |                             |              |     |                        |               |  |
| FS_ID:51752<br>DS_ID:17330<br>EP_NO: 9508<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].<br>FS Date: 5/1/2017 10:34:48 AM |                             |              |     |                        |               |  |

Photo 1 of 3 : UCIP\_SP\_2019\_51752\_47356.jpg



Waterside view: CMP riser with slide gate

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |              |                   |
|----------|-----------------------------|--------------|------------------------|--------------|-------------------|
| LM Start | <b>14.50</b>                | Rating **    | A/W                    | Issue No.    | <b>178 (cont)</b> |
| LM End   | <b>14.50</b>                | Issue Type + | Ma                     | Location *   |                   |
| Category | Supplemental                |              | GPS Latitude/Longitude |              |                   |
|          |                             |              | Start                  | End          |                   |
| Item     | DWR UCIP LMA Responsibility |              | 39.321429°             | 39.321429°   |                   |
|          |                             |              | -122.016079°           | -122.016079° |                   |
| DWR ID   | 17330                       |              |                        |              |                   |

**Comment Code**

**Inspector Comment**

FS\_ID:51752  
DS\_ID:17330  
EP\_NO: 9508  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)10/31/2016 Appears abandoned. WS pipe end buried. (DWR Sutter Yard- AFreitag)6/14/2016 Pipe was internally cleaned and camera inspected on 11/17/2015 by Nor-Cal Pipeline Services. Pipe section through levee is 86ft long and showed some signs of rusting but no visible holes or other deterioration was found. After the inspection the WS end was capped and reburied until further abandonment can be achieved.4/14/2016 Concrete box on LS cleared of sediment.4/2/2015 Same as last inspection. Concrete box on LS silted in. If abandoned it should be done so properly.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/23/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 14 feet below the crown. Slide gate in a 36-inch corrugated metal pipe (CMP) riser on the waterside (WS) slope. Concrete distribution box on the landside (LS). (24-inch pipe [HLM 14.5] authorized under Automatic Board Order (ABO) issued as Permit No. 9508, 1974 - Jones). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 14.5)].  
FS Date: 5/1/2017 10:34:48 AM

|          |              |              |     |            |                   |
|----------|--------------|--------------|-----|------------|-------------------|
| LM Start | <b>14.50</b> | Rating **    | A/W | Issue No.  | <b>178 (cont)</b> |
| LM End   | <b>14.50</b> | Issue Type + | Ma  | Location * |                   |

Photo 2 of 3 : UCIP\_SP\_2019\_51752\_47361.jpg



Waterside view: levee mile marker

Photo 3 of 3 : UCIP\_SP\_2019\_51752\_47360.jpg



Landside view: overview of distribution box

| * Location                                      | ** Rating   | + Issue Type   |
|---|---|--|
| LS : Land Side<br>WS : Water Side<br>CR : Crown | A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable                      | Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|   | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  |

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector      |
|------------------------------|------|------------|--------------------------|----------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar<br>Sokol |

|                   |                            |              |                        |               |            |
|-------------------|----------------------------|--------------|------------------------|---------------|------------|
| LM Start          | <b>14.98</b>               | Rating **    | M                      | Issue No.     | <b>124</b> |
| LM End            | <b>14.98</b>               | Issue Type + | Ma                     | Location *    | WS         |
| Category          | Earthen Levee              |              | GPS Latitude/Longitude |               |            |
|                   |                            |              | Start                  | End           |            |
| Item              | Encroachments              |              | 39.328222 °            | 39.328222 °   |            |
|                   |                            |              | -122.016572 °          | -122.016572 ° |            |
| DWR ID            | DWR_ST0003_01_s _ 2019_124 |              |                        |               |            |
| Comment Code      |                            |              |                        |               |            |
| TR : Tree or limb |                            |              |                        |               |            |
| Inspector Comment |                            |              |                        |               |            |
|                   |                            |              |                        |               |            |

No Photos

|  |                            |              |                        |               |            |
|--|----------------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>16.08</b>               | Rating **    | M                      | Issue No.     | <b>126</b> |
| LM End   | <b>20.30</b>               | Issue Type + | Ma                     | Location *    | WS         |
| Category   | Earthen Levee              |              | GPS Latitude/Longitude |               |            |
|  |                            |              | Start                  | End           |            |
| Item   | Vegetation                 |              | 39.341102 °            | 39.383825 °   |            |
|  |                            |              | -122.023645 °          | -121.990310 ° |            |
| DWR ID   | DWR_ST0003_01_s _ 2019_126 |              |                        |               |            |
| Comment Code   |                            |              |                        |               |            |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                            |              |                        |               |            |
| Inspector Comment  |                            |              |                        |               |            |
|  |                            |              |                        |               |            |

No Photos

|  |                            |              |                        |               |            |
|--|----------------------------|--------------|------------------------|---------------|------------|
| LM Start   | <b>16.08</b>               | Rating **    | M                      | Issue No.     | <b>125</b> |
| LM End   | <b>20.30</b>               | Issue Type + | Ma                     | Location *    | LS         |
| Category   | Earthen Levee              |              | GPS Latitude/Longitude |               |            |
|  |                            |              | Start                  | End           |            |
| Item   | Vegetation                 |              | 39.341104 °            | 39.383825 °   |            |
|  |                            |              | -122.023645 °          | -121.990310 ° |            |
| DWR ID   | DWR_ST0003_01_s _ 2019_125 |              |                        |               |            |
| Comment Code   |                            |              |                        |               |            |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                            |              |                        |               |            |
| Inspector Comment  |                            |              |                        |               |            |
|  |                            |              |                        |               |            |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |    |                        |               |
|----------|-----------------------------|--------------|----|------------------------|---------------|
| LM Start | 16.30                       | Rating **    | M  | Issue No.              | 184           |
| LM End   | 16.30                       | Issue Type + | Ma | Location *             |               |
| Category | Supplemental                |              |    | GPS Latitude/Longitude |               |
|          |                             |              |    | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |    | 39.344177 °            | 39.344177 °   |
|          |                             |              |    | -122.024300 °          | -122.024300 ° |
| DWR ID   | 17337                       |              |    |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:51759  
DS\_ID:17337  
EP\_NO: N/A  
Repair Type: Non-Urgent  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- A Freitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesn't pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.  
FIELD\_STRUCT\_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe.  
[Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].  
FS Date: 5/1/2017 10:41:07 AM

|          |              |              |    |            |                   |
|----------|--------------|--------------|----|------------|-------------------|
| LM Start | <b>16.30</b> | Rating **    | M  | Issue No.  | <b>184 (cont)</b> |
| LM End   | <b>16.30</b> | Issue Type + | Ma | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51759\_75096.jpg



View from crown down WS slope at location of crossing.

Photo 2 of 3 : UCIP\_SP\_2019\_51759\_75097.jpg



View of LS from crown at location of crossing.

|   |  |  |  |  |  |
|---|--|--|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|---|--|--|--|--|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |    |                        |               |  |
|--|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start   | 16.30                       | Rating **    | M  | Issue No.              | 184 (cont)    |  |
| LM End   | 16.30                       | Issue Type + | Ma | Location *             |               |  |
| Category   | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|  |                             |              |    | Start                  | End           |  |
| Item   | DWR UCIP LMA Responsibility |              |    | 39.344177 °            | 39.344177 °   |  |
|  |                             |              |    | -122.024300 °          | -122.024300 ° |  |
| DWR ID   | 17337                       |              |    |                        |               |  |
| Comment Code   |                             |              |    |                        |               |  |
|  |                             |              |    |                        |               |  |
| Inspector Comment  |                             |              |    |                        |               |  |
| FS_ID:51759<br>DS_ID:17337<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. Pipe is buried and not visible but a white marker on WS shoulder shows its location. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe section through the levee is 88ft long and showed signs of rusting but no holes or other deterioration was found. The WS flap gate was broken during excavation but doesnt pose an issue as the pipe was capped and reburied until further abandonment can be achieved. Unfortunately the pipe was not photographed when exposed.4/14/2016 Same as last inspection.4/2/2015 Unable to locate. Pipe has been selected to be dug up and internally camera inspected.7/2/2014 Unable to locate.12/19/2013 Unable to locate7/23/2013 Same as last inspection. Unable to locate.<br>FIELD_STRUCT_DESC: 42-inch corrugated metal drainage pipe through the levee, 16.5 feet below the crown. Metal flap gate on the waterside (WS) silted over. Brick "U" shaped headwall on the WS toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 16.29)].<br>FS Date: 5/1/2017 10:41:07 AM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51759\_75098.jpg



Looking up WS slope: bare spot where pipe was previously excavated, video inspected, and backfilled.

|   |                          |              |     |                        |               |
|---|--------------------------|--------------|-----|------------------------|---------------|
| LM Start  | 16.41                    | Rating **    | A/W | Issue No.              | 127           |
| LM End  | 16.41                    | Issue Type + | Ma  | Location *             | LS            |
| Category  | Earthen Levee            |              |     | GPS Latitude/Longitude |               |
|   |                          |              |     | Start                  | End           |
| Item  | Animal Control           |              |     | 39.345510 °            | 39.345510 °   |
|   |                          |              |     | -122.023052 °          | -122.023052 ° |
| DWR ID  | DWR_ST0003_01_s_2019_127 |              |     |                        |               |
| Comment Code  |                          |              |     |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                          |              |     |                        |               |
| Inspector Comment   |                          |              |     |                        |               |
| Minor rodent activity is present. Monitor this area for increase in rodent activity.                |                          |              |     |                        |               |

No Photos

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |    |                        |               |
|--|-----------------------------|--------------|----|------------------------|---------------|
| LM Start   | 17.58                       | Rating **    | M  | Issue No.              | 186           |
| LM End   | 17.58                       | Issue Type + | Ma | Location *             |               |
| Category   | Supplemental                |              |    | GPS Latitude/Longitude |               |
|  |                             |              |    | Start                  | End           |
| Item   | DWR UCIP LMA Responsibility |              |    | 39.353531 °            | 39.353531 °   |
|  |                             |              |    | -122.009138 °          | -122.009138 ° |
| DWR ID   | 17329                       |              |    |                        |               |
| Comment Code   |                             |              |    |                        |               |
|  |                             |              |    |                        |               |
| Inspector Comment  |                             |              |    |                        |               |
| FS_ID:51762<br>DS_ID:17329<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned. (DWR Sutter Yard- AFreitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].<br>FS Date: 5/1/2017 10:45:36 AM |                             |              |    |                        |               |

|          |       |              |    |            |            |
|----------|-------|--------------|----|------------|------------|
| LM Start | 17.58 | Rating **    | M  | Issue No.  | 186 (cont) |
| LM End   | 17.58 | Issue Type + | Ma | Location * |            |

Photo 1 of 3 : UCIP\_SP\_2019\_51762\_47384.jpg



Landside view: overview. No pipe found.

Photo 2 of 3 : UCIP\_SP\_2019\_51762\_47386.jpg



Waterside view: slide gate steel structure

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |    |                        |               |     |
|--|-----------------------------|--------------|----|------------------------|---------------|-----|
| LM Start   | 17.58                       | Rating **    | M  | Issue No.              | 186 (cont)    |     |
| LM End   | 17.58                       | Issue Type + | Ma | Location *             |               |     |
| Category   | Supplemental                |              |    | GPS Latitude/Longitude |               |     |
|  |                             |              |    | Start                  |               | End |
| Item   | DWR UCIP LMA Responsibility |              |    | 39.353531 °            | 39.353531 °   |     |
|  |                             |              |    | -122.009138 °          | -122.009138 ° |     |
| DWR ID   | 17329                       |              |    |                        |               |     |
| Comment Code   |                             |              |    |                        |               |     |
|  |                             |              |    |                        |               |     |
| Inspector Comment  |                             |              |    |                        |               |     |
| FS_ID:51762<br>DS_ID:17329<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done properly. Pipe had a small leak during high water and is believed to be caused by the screw gate not being fully closed before it was reburied after its internal inspection. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned. (DWR Sutter Yard- A Freitag)6/15/2016 Pipe was dug up and internally cleaned and camera inspected on 11/18/2015 by Nor-Cal Pipeline Services. Pipe section through levee is about 93.8ft long. Inspection showed signs of rusting but no holes or other deterioration was found. WS end and slidegate were photographed, LS end was not. After the inspection pipe ends were capped and reburied until further abandonment can be achieved.4/2/2015 WS pipe end was dug up in preparation for internal camera inspection. Only steel slide gate structure found on waterside.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 24-inch corrugated metal drainage pipe through the levee, 15.8 feet below the crown. Slide gate on the waterside (WS) end. Both pipe ends are silted over. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 17.6)].<br>FS Date: 5/1/2017 10:45:36 AM |                             |              |    |                        |               |     |

Photo 3 of 3 : UCIP\_SP\_2019\_51762\_47385.jpg



Waterside view: buried slide gate

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |                        |               |            |
|----------|-----------------------------|--------------|------------------------|---------------|------------|
| LM Start | <b>18.61</b>                | Rating **    | A/W                    | Issue No.     | <b>191</b> |
| LM End   | <b>18.61</b>                | Issue Type + | Ma                     | Location *    |            |
| Category | Supplemental                |              | GPS Latitude/Longitude |               |            |
|          |                             |              | Start                  | End           |            |
| Item     | DWR UCIP LMA Responsibility |              | 39.362866 °            | 39.362866 °   |            |
|          |                             |              | -121.997993 °          | -121.997993 ° |            |
| DWR ID   | 17345                       |              |                        |               |            |

**Comment Code**

**Inspector Comment**

FS\_ID:51770  
DS\_ID:17345  
EP\_NO: N/A  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard with rock revetment.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].  
FS Date: 5/1/2017 10:52:46 AM

|          |              |              |     |            |                   |
|----------|--------------|--------------|-----|------------|-------------------|
| LM Start | <b>18.61</b> | Rating **    | A/W | Issue No.  | <b>191 (cont)</b> |
| LM End   | <b>18.61</b> | Issue Type + | Ma  | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51770\_47399.jpg



Waterside view: overview of sliding gate structure

Photo 2 of 3 : UCIP\_SP\_2019\_51770\_47398.jpg



Waterside view: outlet pipe with concrete headwall and floor apron.

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |     |                        |               |  |
|---|-----------------------------|--------------|-----|------------------------|---------------|--|
| LM Start  | 18.61                       | Rating **    | A/W | Issue No.              | 191 (cont)    |  |
| LM End  | 18.61                       | Issue Type + | Ma  | Location *             |               |  |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |  |
|   |                             |              |     | Start                  | End           |  |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.362866 °            | 39.362866 °   |  |
|   |                             |              |     | -121.997993 °          | -121.997993 ° |  |
| DWR ID  | 17345                       |              |     |                        |               |  |
| Comment Code  |                             |              |     |                        |               |  |
|   |                             |              |     |                        |               |  |
| Inspector Comment   |                             |              |     |                        |               |  |
| FS_ID:51770<br>DS_ID:17345<br>EP_NO: N/A<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. Pipe is 155ft in total length and the inspection showed some minor rusting but no holes or other deformations were found. Pipe is still used by the landowner for irrigation and the sloughing near the WS end was repaired and rocked to prevent future sloughing or erosion.4/14/2016 Sloughing repaired by Sutter Yard with rock revetment.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.Sloughing at outlet and levee slope is damaged due to sloughing.7/2/2014 It is not an abandoned crossing. Sloughing at outlet and levee slope is damaged due to sloughing.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: 36-inch corrugated metal drainage pipe through the levee, 20 feet below the crown. Slide gate at the waterside (WS) toe. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.65)].<br>FS Date: 5/1/2017 10:52:46 AM |                             |              |     |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51770\_47403.jpg



Waterside view: sloughing at outlet pipe

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |     |                        |               |
|----------|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 18.70                       | Rating **    | A/W | Issue No.              | 192           |
| LM End   | 18.70                       | Issue Type + | Ma  | Location *             |               |
| Category | Supplemental                |              |     | GPS Latitude/Longitude |               |
|          |                             |              |     | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |     | 39.364067 °            | 39.364067 °   |
|          |                             |              |     | -121.997792 °          | -121.997792 ° |
| DWR ID   | 17346                       |              |     |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:51771  
DS\_ID:17346  
EP\_NO: 9503  
Repair Type: No Action Needed  
Crossing Status: Found  
UCIP Comments: 4/20/2017 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- AFreitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].  
FS Date: 5/1/2017 10:53:44 AM

|          |              |              |     |            |                   |
|----------|--------------|--------------|-----|------------|-------------------|
| LM Start | <b>18.70</b> | Rating **    | A/W | Issue No.  | <b>192 (cont)</b> |
| LM End   | <b>18.70</b> | Issue Type + | Ma  | Location * |                   |

Photo 1 of 3 : UCIP\_SP\_2019\_51771\_47442.jpg



Waterside view: overview of slide gate structure

Photo 2 of 3 : UCIP\_SP\_2019\_51771\_47441.jpg



Waterside view: 8-inch pipe inside 24-inch CMP

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|--|--|---|--|---|--|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|          |                             |              |     |                        |               |
|----------|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start | 18.70                       | Rating **    | A/W | Issue No.              | 192 (cont)    |
| LM End   | 18.70                       | Issue Type + | Ma  | Location *             |               |
| Category | Supplemental                |              |     | GPS Latitude/Longitude |               |
|          |                             |              |     | Start                  | End           |
| Item     | DWR UCIP LMA Responsibility |              |     | 39.364067 °            | 39.364067 °   |
|          |                             |              |     | -121.997792 °          | -121.997792 ° |
| DWR ID   | 17346                       |              |     |                        |               |

**Comment Code**

**Inspector Comment**

FS\_ID:51771  
 DS\_ID:17346  
 EP\_NO: 9503  
 Repair Type: No Action Needed  
 Crossing Status: Found  
 UCIP Comments: 4/20/2017 Crossing appears to be in good condition.  
 (DWR Sutter Yard- A Freitag)11/1/2016 Crossing appears to be in good condition. (DWR Sutter Yard- A Freitag)6/16/2016 Pipe was internally cleaned and camera inspected on 11/19/2015 by Nor-Cal Pipeline Services. 129.5 ft (starting from the WS end) was inspected to get us through the levee prism but the LS end was never found. Pipe showed no signs of rust or damage.4/14/2016 Inlet structure still filled with soil.4/2/2015 Same as last inspection. Pipe has been selected for internal camera inspection.According to local people, the crossing is functional. The gap between 8-inch and 24-inch pipes is grouted with cement. Inlet structure is filled with soil.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.  
 FIELD\_STRUCT\_DESC: 24-inch corrugated metal drainage pipe through the levee, 19 feet below the crown. 8-inch steel pipe sleeved through the 24-inch pipe. Annular space cement grouted. Slide gate at the waterside (WS) toe. Concrete inlet box on the landside (LS). (24-inch pipe [HLM 18.74] authorized under Automatic Board Order (ABO) issued as Permit No. 9503, 1974 - Baird). [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 18.74)].  
 FS Date: 5/1/2017 10:53:44 AM

Photo 3 of 3 : UCIP\_SP\_2019\_51771\_47440.jpg



Waterside view: 8-inch pipe and drain gate

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |     |                        |               |
|---|-----------------------------|--------------|-----|------------------------|---------------|
| LM Start  | 19.19                       | Rating **    | A/W | Issue No.              | 193           |
| LM End  | 19.19                       | Issue Type + | Ma  | Location *             |               |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |
|   |                             |              |     | Start                  | End           |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.370031 °            | 39.370031 °   |
|   |                             |              |     | -121.996458 °          | -121.996458 ° |
| DWR ID  | 17347                       |              |     |                        |               |
| Comment Code  |                             |              |     |                        |               |
|   |                             |              |     |                        |               |
| Inspector Comment   |                             |              |     |                        |               |
| FS_ID:51773<br>DS_ID:17347<br>EP_NO: N/A<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].<br>FS Date: 5/1/2017 10:55:06 AM |                             |              |     |                        |               |

Photo 1 of 3 : UCIP\_SP\_2019\_51773\_47447.jpg



Waterside view: overview of abandoned slide gate structure

|          |       |              |     |            |            |
|----------|-------|--------------|-----|------------|------------|
| LM Start | 19.19 | Rating **    | A/W | Issue No.  | 193 (cont) |
| LM End   | 19.19 | Issue Type + | Ma  | Location * |            |

Photo 2 of 3 : UCIP\_SP\_2019\_51773\_47446.jpg



Landside view: overview (no pipes)

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|



**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|   |                             |              |     |                        |               |     |
|---|-----------------------------|--------------|-----|------------------------|---------------|-----|
| LM Start  | 19.19                       | Rating **    | A/W | Issue No.              | 193 (cont)    |     |
| LM End  | 19.19                       | Issue Type + | Ma  | Location *             |               |     |
| Category  | Supplemental                |              |     | GPS Latitude/Longitude |               |     |
|   |                             |              |     | Start                  |               | End |
| Item  | DWR UCIP LMA Responsibility |              |     | 39.370031 °            | 39.370031 °   |     |
|   |                             |              |     | -121.996458 °          | -121.996458 ° |     |
| DWR ID  | 17347                       |              |     |                        |               |     |
| Comment Code  |                             |              |     |                        |               |     |
|   |                             |              |     |                        |               |     |
| Inspector Comment   |                             |              |     |                        |               |     |
| FS_ID:51773<br>DS_ID:17347<br>EP_NO: N/A<br>Repair Type: No Action Needed<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- plugged. (DWR Sutter Yard-AFreitag)11/1/2016 Abandoned/plugged. (DWR Sutter Yard-AFreitag)6/16/2016 Internal camera inspection was done on 11/19/2015 by Nor-Cal Pipeline Servies. Pipe was inspected starting from the WS end and inspected upto the grout plug that is 13.7ft into the pipe. Pipe was then capped and reburied until further abandonment can be achieved.4/2/2015 WS end of pipe was dug up in preparation for internal camera inspection. Only steel slide gate structure found on WS.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, 21.7 feet below the crown. Slide gate at the waterside (WS) toe. Pipe grouted on the WS end. [Additional Reference(s): DWR Levee Log, 2002. USACE Sacramento O&M Manual 136, March 1960 (HLM 19.24)].<br>FS Date: 5/1/2017 10:55:06 AM |                             |              |     |                        |               |     |

Photo 3 of 3 : UCIP\_SP\_2019\_51773\_73781.jpg



WS pipe end and screw gate

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |    |                        |               |
|--|-----------------------------|--------------|----|------------------------|---------------|
| LM Start   | 19.55                       | Rating **    | M  | Issue No.              | 194           |
| LM End   | 19.55                       | Issue Type + | Ma | Location *             |               |
| Category   | Supplemental                |              |    | GPS Latitude/Longitude |               |
|  |                             |              |    | Start                  | End           |
| Item   | DWR UCIP LMA Responsibility |              |    | 39.375221 °            | 39.375221 °   |
|  |                             |              |    | -121.995878 °          | -121.995878 ° |
| DWR ID   | 17487                       |              |    |                        |               |
| Comment Code   |                             |              |    |                        |               |
|  |                             |              |    |                        |               |
| Inspector Comment  |                             |              |    |                        |               |
| FS_ID:51775<br>DS_ID:17487<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- A Freitag)11/1/2016 Abandoned.(DWR Sutter Yard- A Freitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].<br>FS Date: 5/1/2017 10:56:50 AM |                             |              |    |                        |               |

|          |       |              |    |            |            |
|----------|-------|--------------|----|------------|------------|
| LM Start | 19.55 | Rating **    | M  | Issue No.  | 194 (cont) |
| LM End   | 19.55 | Issue Type + | Ma | Location * |            |

Photo 1 of 3 : UCIP\_SP\_2019\_51775\_47449.jpg



Waterside view: overview

Photo 2 of 3 : UCIP\_SP\_2019\_51775\_47448.jpg



Waterside view: abandoned and ruined pipe

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                     | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|------------------------------|------|------------|--------------------------|-------------|
| Unit No. 01 Sacramento River | Left | 19.85      | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                             |              |    |                        |               |  |
|--|-----------------------------|--------------|----|------------------------|---------------|--|
| LM Start   | 19.55                       | Rating **    | M  | Issue No.              | 194 (cont)    |  |
| LM End   | 19.55                       | Issue Type + | Ma | Location *             |               |  |
| Category   | Supplemental                |              |    | GPS Latitude/Longitude |               |  |
|  |                             |              |    | Start                  | End           |  |
| Item   | DWR UCIP LMA Responsibility |              |    | 39.375221 °            | 39.375221 °   |  |
|  |                             |              |    | -121.995878 °          | -121.995878 ° |  |
| DWR ID   | 17487                       |              |    |                        |               |  |
| Comment Code   |                             |              |    |                        |               |  |
|  |                             |              |    |                        |               |  |
| Inspector Comment  |                             |              |    |                        |               |  |
| FS_ID:51775<br>DS_ID:17487<br>EP_NO: N/A<br>Repair Type: Non-Urgent<br>Crossing Status: Found<br>UCIP Comments: 4/20/2017 Abandoned- needs to be done so properly. (DWR Sutter Yard- AFreitag)11/1/2016 Abandoned.(DWR Sutter Yard- AFreitag)6/3/2016 Abandoned crossing.4/2/2015 Same as last inspection. Slide Gate WS not found. An abandoned pump and steel pipe found on WS. A 6 ft x 8 ft concrete distribution box with a CMP found on LS. Box filled with soil. An abandoned crossing.7/2/2014 Same as last inspection.12/19/2013 Same as last inspection.7/24/2013 Same as last inspection.<br>FIELD_STRUCT_DESC: *ABANDONED* 36-inch corrugated metal drainage pipe through the levee, invert 21.7 feet below the crown. Abandoned pump and steel pipe found on the waterside (WS). 6 foot by 8 foot concrete distribution box with the 36-inch corrugated metal pipe found on the landside (LS). [Additional Reference(s): USACE Sacramento O&M Manual 136, March 1960 (HLM 19.61)].<br>FS Date: 5/1/2017 10:56:50 AM |                             |              |    |                        |               |  |

Photo 3 of 3 : UCIP\_SP\_2019\_51775\_47453.jpg



Waterside view: abandoned and ruined pipe

|  |  |   |   |
|--|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                  | Bank  | Unit Miles | Inspection Start/End     | Inspector   |
|---------------------------|-------|------------|--------------------------|-------------|
| Unit No. 02 Colusa Bypass | Right | 2.20       | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.00                   | Rating **    | A  | Issue No.              | 3             |
| LM End   | 2.20                   | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.232138 °            | 39.227873 °   |
|  |                        |              |    | -121.995825 °          | -121.958932 ° |
| DWR ID   | DWR_ST0003_02_s_2019_3 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
| The vegetation on the waterside slope is well maintained.              |                        |              |    |                        |               |

No Photos

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.00                   | Rating **    | M  | Issue No.              | 7             |
| LM End   | 2.20                   | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.232138 °            | 39.227873 °   |
|  |                        |              |    | -121.995825 °          | -121.958932 ° |
| DWR ID   | DWR_ST0003_02_s_2017_7 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
|  |                        |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_265\_7\_20190418\_00004.jpg



View of the vegetation on the landside slope. Spring 2019.

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 0.02                   | Rating **    | M  | Issue No.              | 1             |
| LM End  | 0.02                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Vegetation             |              |    | 39.232058 °            | 39.232058 °   |
|   |                        |              |    | -121.995514 °          | -121.995514 ° |
| DWR ID  | DWR_ST0003_02_s_2012_1 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| V4 : Elderberries are blocking visibility and flood fight capability. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
|   |                        |              |    |                        |               |

No Photos

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |



**Flood Control Project Maintenance  
Levee Inspections**

## Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019

### Sutter Maintenance Yard East Levee Sacramento River

| Waterway                  | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|---------------------------|------|------------|--------------------------|-------------|
| Unit No. 03 Colusa Bypass | Left | 2.29       | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.01                   | Rating **    | A  | Issue No.              | 5             |
| LM End   | 2.29                   | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.236715 °            | 39.244888 °   |
|  |                        |              |    | -121.994025 °          | -121.959108 ° |
| DWR ID   | DWR_ST0003_03_s_2019_5 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
| The vegetation on the waterside slope is well maintained.              |                        |              |    |                        |               |

No Photos

|  |                         |              |    |                        |               |
|--|-------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.01                    | Rating **    | M  | Issue No.              | 13            |
| LM End   | 2.29                    | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|  |                         |              |    | Start                  | End           |
| Item   | Vegetation              |              |    | 39.236715 °            | 39.244888 °   |
|  |                         |              |    | -121.994025 °          | -121.959108 ° |
| DWR ID   | DWR_ST0003_03_s_2017_13 |              |    |                        |               |
| Comment Code   |                         |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                         |              |    |                        |               |
| Inspector Comment  |                         |              |    |                        |               |
|  |                         |              |    |                        |               |

No Photos

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.20                   | Rating **    | M  | Issue No.              | 3             |
| LM End   | 0.20                   | Issue Type + | Ma | Location *             | WS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Erosion / Bank Caving  |              |    | 39.236171 °            | 39.236171 °   |
|  |                        |              |    | -121.990472 °          | -121.990472 ° |
| DWR ID   | DWR_ST0003_03_s_2019_3 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| E2 : Schedule repair of erosion site prior to the next inspection. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
|  |                        |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_266\_3\_20190418\_00001.jpg



View of the erosion on the waterside slope and toe. Spring 2019.

|   |  |   |  |   |  |  |  |
|---|--|---|--|---|--|--|--|
| * Location<br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | ** Rating<br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable |  | N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain |  | + Issue Type<br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |  |
|---|--|---|--|---|--|--|--|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                  | Bank | Unit Miles | Inspection Start/End     | Inspector      |
|---------------------------|------|------------|--------------------------|----------------|
| Unit No. 03 Colusa Bypass | Left | 2.29       | 04/16/2019<br>04/16/2019 | Makar<br>Sokol |

|   |                         |              |    |                        |               |
|---|-------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.94                    | Rating **    | M  | Issue No.              | 10            |
| LM End  | 1.94                    | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee           |              |    | GPS Latitude/Longitude |               |
|   |                         |              |    | Start                  | End           |
| Item  | Vegetation              |              |    | 39.244888 °            | 39.244888 °   |
|   |                         |              |    | -121.965595 °          | -121.965595 ° |
| DWR ID  | DWR_ST0003_03_s_2012_10 |              |    |                        |               |
| Comment Code  |                         |              |    |                        |               |
| V4 : Elderberries are blocking visibility and flood fight capability. |                         |              |    |                        |               |
| Inspector Comment   |                         |              |    |                        |               |
|   |                         |              |    |                        |               |

No Photos

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 2.13                   | Rating **    | M  | Issue No.              | 2             |
| LM End  | 2.13                   | Issue Type + | Ma | Location *             | WS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Vegetation             |              |    | 39.244925 °            | 39.244925 °   |
|   |                        |              |    | -121.962072 °          | -121.962072 ° |
| DWR ID  | DWR_ST0003_03_s_2015_2 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| V4 : Elderberries are blocking visibility and flood fight capability. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
|   |                        |              |    |                        |               |

No Photos

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 2.22                   | Rating **    | M  | Issue No.              | 1             |
| LM End   | 2.22                   | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.244908 °            | 39.244908 °   |
|  |                        |              |    | -121.960285 °          | -121.960285 ° |
| DWR ID   | DWR_ST0003_03_s_2019_1 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V2 : Remove the wild growth other than native grasses from the levee slopes. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
|  |                        |              |    |                        |               |

No Photos

|  |  |   |  |   |
|--|--|---|--|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown |  | <b>** Rating</b><br>A : Acceptable                      N : Not Inspected/Rated<br>M : Minimally Acceptable        C : Corrected<br>U : Unacceptable                  A/W : Acceptable but Monitor & Maintain |  | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|--|---|--|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                   | Bank  | Unit Miles | Inspection Start/End     | Inspector      |
|----------------------------|-------|------------|--------------------------|----------------|
| Unit No. 04 Moulton Bypass | Right | 0.30       | 04/16/2019<br>04/16/2019 | Makar<br>Sokol |

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.00                   | Rating **    | A  | Issue No.              | 1             |
| LM End   | 0.30                   | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.338139 °            | 39.336011 °   |
|  |                        |              |    | -122.022164 °          | -122.017552 ° |
| DWR ID   | DWR_ST0003_04_s_2019_1 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements.       |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
| The annual vegetation on both the landside and waterside is well maintained. |                        |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_267\_1\_20190418\_00001.jpg



View of the vegetation on the landside slope. Spring 2019.

|  |   |   |
|--|---|---|
| <b>* Location</b><br>LS : Land Side    N/A : Not Applicable<br>WS : Water Side<br>CR : Crown | <b>** Rating</b><br>A : Acceptable<br>M : Minimally Acceptable<br>U : Unacceptable<br>N : Not Inspected/Rated<br>C : Corrected<br>A/W : Acceptable but Monitor & Maintain | <b>+ Issue Type</b><br>Ma : Maintenance Deficiency<br>Ob : Design & System Obsolescence<br>En : Enforcement |
|--|---|---|

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2019**

**Sutter Maintenance Yard East Levee Sacramento River**

| Waterway                   | Bank | Unit Miles | Inspection Start/End     | Inspector   |
|----------------------------|------|------------|--------------------------|-------------|
| Unit No. 05 Moulton Bypass | Left | 2.19       | 04/16/2019<br>04/16/2019 | Makar Sokol |

|  |                        |              |    |                        |               |
|--|------------------------|--------------|----|------------------------|---------------|
| LM Start   | 0.09                   | Rating **    | U  | Issue No.              | 2             |
| LM End   | 0.79                   | Issue Type + | Ma | Location *             | LS            |
| Category   | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|  |                        |              |    | Start                  | End           |
| Item   | Vegetation             |              |    | 39.346338 °            | 39.340637 °   |
|  |                        |              |    | -122.016459 °          | -122.009077 ° |
| DWR ID   | DWR_ST0003_05_s_2019_2 |              |    |                        |               |
| Comment Code   |                        |              |    |                        |               |
| V1 : Control annual grass and weeds on the levee slopes and easements. |                        |              |    |                        |               |
| Inspector Comment  |                        |              |    |                        |               |
|  |                        |              |    |                        |               |

Photo 1 of 1 : SP\_2019\_ST0003\_268\_2\_20190418\_00003.jpg



View of the vegetation on the landside slope. Spring 2019.

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.10                   | Rating **    | M  | Issue No.              | 3             |
| LM End  | 1.10                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Animal Control         |              |    | 39.338501 °            | 39.338501 °   |
|   |                        |              |    | -122.004106 °          | -122.004106 ° |
| DWR ID  | DWR_ST0003_05_s_2019_3 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
|   |                        |              |    |                        |               |

No Photos

|   |                        |              |    |                        |               |
|---|------------------------|--------------|----|------------------------|---------------|
| LM Start  | 1.17                   | Rating **    | M  | Issue No.              | 4             |
| LM End  | 1.17                   | Issue Type + | Ma | Location *             | LS            |
| Category  | Earthen Levee          |              |    | GPS Latitude/Longitude |               |
|   |                        |              |    | Start                  | End           |
| Item  | Animal Control         |              |    | 39.337981 °            | 39.337981 °   |
|   |                        |              |    | -122.002929 °          | -122.002929 ° |
| DWR ID  | DWR_ST0003_05_s_2019_4 |              |    |                        |               |
| Comment Code  |                        |              |    |                        |               |
| A1 : Exterminate rodents and backfill and compact or grout burrows. |                        |              |    |                        |               |
| Inspector Comment   |                        |              |    |                        |               |
|   |                        |              |    |                        |               |

No Photos

|                 |                      |                          |   |                                   |  |
|-----------------|----------------------|--------------------------|---|-----------------------------------|--|
| * Location      |                      | ** Rating                |   | + Issue Type                      |  |
| LS : Land Side  | N/A : Not Applicable | A : Acceptable           | N : Not Inspected/Rated                 | Ma : Maintenance Deficiency       |  |
| WS : Water Side |                      | M : Minimally Acceptable | C : Corrected                           | Ob : Design & System Obsolescence |  |
| CR : Crown      |                      | U : Unacceptable         | A/W : Acceptable but Monitor & Maintain | En : Enforcement                  |  |